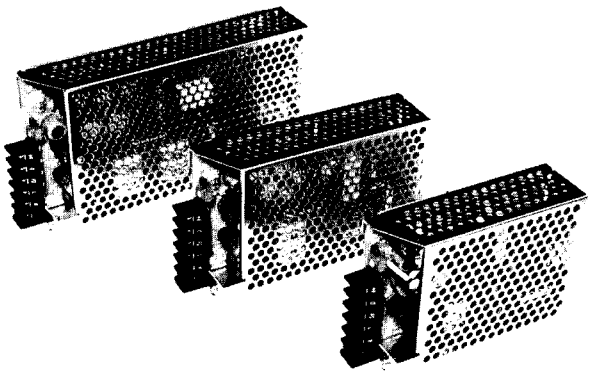
Volgen *Quality First*

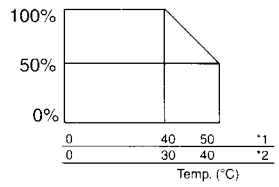
SPU SERIES

CE MARK



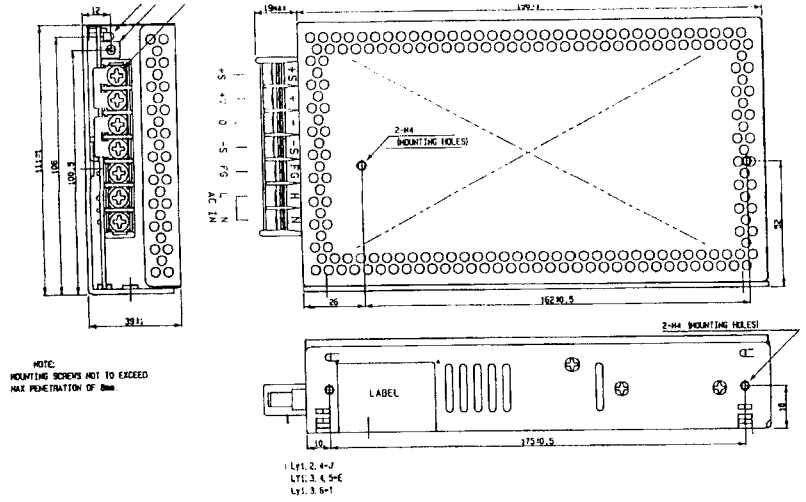
Features:

- **100W & 150W Models**
- **Power Factor Correction**
- Universal Input (AC85-264V)
- International Safety Approvals
- EMI: FCC Class "A", VCCI-II
- Built-In Overvoltage/Overcurrent Protection
- Lightweight Construction
- Metal Chassis with Cover
- Compact, Low-Profile Packages
- Three Year Warranty

Specifications:	*SP-100U*	*SP-150U*
INPUT VOLTAGE	100-230VAC (AC85-264V) (DC110 -340V)	
INPUT FREQUENCY	50/60 Hz (47 - 63 Hz)	
INPUT CURRENT	1.3-0.66A (typ)	2.0 - 1.0A (typ)
POWER FACTOR	0.95 min.	
INRUSH CURRENT	10 / 25A (typ) (at 100/230 VAC)	
OUTPUT ADJUST RANGE	± 10%	
OVER VOLTAGE PROTECTION	Output shut down (112-150%)	
OVER CURRENT PROTECTION	Over 105% (Automatic Recovery)	
TEMPERATURE COEFFICIENT	0.02% / °C	
DRIFT	0.5% + 15 mV max. / 8 hr. (after 1 hour)	
RISE TIME	1300/600mS max. (at 100/230 VAC)	1400/500 mS max. (at 100/230 VAC)
HOLD-UP TIME	50/40MS TYP. (at 100/230 VAC)	
OPERATION TEMPERATURE	LOAD  *1 Vertical mounted with cover. *2 Horizontal mounted with cover.	
STORAGE TEMPERATURE	-20°C - 85°C	
HUMIDITY	20 - 85% RH (non-condensing)	
DIELECTRIC WITHSTANDING VOLTAGE	PRIMARY - SECONDARY AC 3000V / 1 min PRIMARY - CASE AC 1500V / 1min SECONDARY - CASE AC 500V / 1 min	
LEAKAGE CURRENT	0.75mA max.	
ISOLATION RESISTANCE	INPUT - OUTPUT - CASE 100 Mohms MIN.	
EMI	FCC-A, CISPR-B	
SAFETY	EN60 950:1992 UL 1950 (CSA22.2 No. 950-M95)	
VIBRATION	0.5mm Width, 10-55 Hz/1 minute cycle, 3 direction, each 30 minutes	
SHOCK	20G (3 direction each 3 times)	
WARRANTY	3 Years	

MODEL NO.	OUTPUT VOLTAGE (VDC)	OUTPUT CURRENT CURRENT (A)		EFFICIENCY (%)		EFFICIENCY		RIPPLE NOISE (mV) p-p
		100V	200V	100V	200V	LINE (mV) max	LOAD (mV) max	
SP100U-05S	5	20	22	79	81	10	20	120
SP100U-12S	12	8.6	10	83	86	10	20	150
SP100U-15S	15	7	8	83	86	10	20	150
SP100U-24S	24	4.4	5	83	86	20	40	150
SP100U-48S	48	2.2	2.5	84	87	20	40	150
SP150U-05S	5	30	36	78	81	10	20	120
SP150U-12S	12	13	15.7	82	86	10	20	150
SP150U-15S	15	10.6	12.8	83	87	10	20	150
SP150U-24S	24	6.7	8.1	83	87	20	40	150
SP150U-48S	48	3.4	4.1	83	87	20	40	150

• SP100U



• SP150U